

Applicant : Songxiang Wei
Appl. No. : 09/835,086
Examiner : Ismail, Shawisaif
Docket No. : 16440.4013

Claims

1-24. (Canceled).

25. (Currently amended) A method performed on a computer for sharing applications using screen sampling, the method comprising:

receiving from a presenter a selection of a shared application;

monitoring and intercepting function calls made by the shared application to a graphical display subsystem to dynamically determine a position and a size of a non-DirectDraw region of a window displayed in a presenter screen for the shared application;

monitoring a DirectDraw COM interface to dynamically determine a position and a size of a DirectDraw region of the window displayed in the presenter screen for the shared application;

monitoring function calls made by a non-shared application to dynamically determine a position and a size of a window displayed in the presenter screen for the non-shared application;

comparing the positions and the sizes of the non-DirectDraw region and the DirectDraw region of the window for the shared application against the position and the size of the window for the non-shared application to determine any overlapping regions in the presenter screen;

capturing a screen shot of an image corresponding to the non-DirectDraw and the DirectDraw regions of the window for the shared application; and

transmitting the screen shot of the image and information for the position and size of the overlapping regions to generate a viewer screen.

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26. (Previously presented) The method of Claim 25 wherein:

the transmitted screen shot of the image corresponding to the non-DirectDraw and the DirectDraw regions of the window for the shared application and the information for the position and size of the overlapping regions can be used to display the image in the viewer screen with the overlapping regions filled in with an arbitrary color.

27. (Previously presented) The method of Claim 25 further comprising:

compressing the screen shot of the image corresponding to the non-DirectDraw and the DirectDraw regions of the window for the shared application.

28. (Previously presented) The method of Claim 25 further comprising:

capturing a screen shot of an updated image corresponding to the non-DirectDraw and the DirectDraw regions of the window for the shared application;
transmitting the screen shot of the updated image corresponding to the non-DirectDraw and the DirectDraw regions of the window for the shared application to update the viewer screen.

29. (Previously presented) The method of Claim 25 further comprising:

periodically capturing the image corresponding to the shared application window.

30. (Previously presented) The method of Claim 25 further comprising:

determining whether the position or the size of any of the non-DirectDraw region of a

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window for the shared application, the DirectDraw region of the window for the shared application, and the window for the non-shared application has changed; and

transmitting information about the change in the position or the size to update the viewer screen.

31. (Currently amended) A computer-readable storage medium storing a computer program comprising computer instructions for:

receiving from a presenter a selection of a shared application;

monitoring and intercepting function calls made by the shared application to a graphical display subsystem to dynamically determine a position and a size of a non-DirectDraw region of a window displayed in a presenter screen for the shared application;

monitoring a DirectDraw COM interface to dynamically determine a position and a size of a DirectDraw region of the window displayed in the presenter screen for the shared application;

monitoring function calls made by a non-shared application to dynamically determine a position and a size of a window displayed in the presenter screen for the non-shared application;

comparing the positions and the sizes of the non-DirectDraw region and the DirectDraw region of the window for the shared application against the position and the size of the window for the non-shared application to determine any overlapping regions in the presenter screen;

capturing a screen shot of an image corresponding to the non-DirectDraw and the DirectDraw regions of the window for the shared application; and

transmitting the screen shot and information for the position and size of the overlapping

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regions to generate a viewer screen.

32. (Previously presented) The computer readable storage medium of Claim 31 wherein:

the transmitted screen shot of the image corresponding to the non-DirectDraw and the DirectDraw regions of the window for the shared application and the information for the position and size of the overlapping regions can be used to display the image in the viewer screen with the overlapping regions filled in with an arbitrary color.

33. (Previously presented) The computer readable storage medium of Claim 31 further comprising computer instructions for:

compressing the screen shot of the image corresponding to the non-DirectDraw and the DirectDraw regions of the window for the shared application.

34. (Previously presented) The computer readable storage medium of Claim 31 further comprising computer instructions for:

capturing a screen shot of an updated image corresponding to the non-DirectDraw and the DirectDraw regions of the window for the shared application;

transmitting the screen shot of the updated image corresponding to the non-DirectDraw and the DirectDraw regions of the window for the shared application to update the viewer screen.

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35. (Previously presented) The computer readable storage medium of Claim 31 further comprising computer instructions for:

periodically capturing the image corresponding to the shared application window.

36. (Previously presented) The computer readable storage medium of Claim 31 further comprising computer instructions for:

determining whether the position or the size of any of the non-DirectDraw region of a window for the shared application, the DirectDraw region of the window for the shared application, and the window for the non-shared application has changed; and

transmitting information about the change in the position or the size to update the viewer screen.

37. (Currently amended) A data conferencing system comprising:

a presenter computer connected to one or more server computers via a global area computer network and to a presenter display to display a presenter screen

a viewer computer connected to the one or more server computers via the global area computer network and to a viewer display to display a viewer screen and

a computer program executable by the presenter computer, wherein the computer program comprises computer instructions for:

receiving from a presenter a selection of a shared application;

monitoring and intercepting function calls made by the shared application to a graphical display subsystem to dynamically determine a position and a size of a non-DirectDraw region of a window displayed in the presenter screen for the shared application;

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monitoring a DirectDraw COM interface to dynamically determine a position and a size of DirectDraw region of window displayed in the presenter screen for the shared application;

monitoring function calls made by a non-shared application to dynamically determine a position and a size of a window displayed in the presenter screen for the non-shared application;

comparing the positions and the sizes of the non-DirectDraw region and the DirectDraw region of the window for the shared application against the position and the size of the window for the non-shared application to determine any overlapping regions in the presenter screen;

capturing a screen shot of an image corresponding to the non-DirectDraw and the DirectDraw regions of the window for the shared application; and

transmitting the screen shot and information for the position and size of the overlapping regions to the viewer computer to generate the viewer screen.